S/N unknown PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	SATOH et al.	Examiner:	unknown
Serial No.:	unknown	Group Art Unit:	unknown
Filed:	Concurrent herewith	Docket:	10873.1781USWO
Title:	SOLAR CELL		

CERTIFICATE UNDER 37 CFR 1.10:
"Express Mail" mailing label number: ED 977668250 US
Date of Deposit: OCTOBER 5, 2005
I hereby certify that this paper or fee is being deposited with the U.S. Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Arlington, VA 22313-1450..

By:_____
Name: RALYNN WILHELM

INFORMATION DISCLOSURE STATEMENT (37 C.F.R. § 1.97(c))

MS PCT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

With regard to the above-identified application, the items of information listed on the enclosed Form 1449 are brought to the attention of the Examiner. The references were recently cited in an International Search Report, mailed July 6, 2004.

This statement should be considered because it is submitted within three months of the filing date of the above-identified application, which is not an application under 37 C.F.R. §1.53(d). Accordingly, no fee is due for consideration of the items listed on the enclosed Form 1449.

In accordance with 37 C.F.R. §1.98(a)(2), a copy of each non-U.S. document or other information listed on the enclosed Form 1449 is provided. A copy of the International Search Report is enclosed.

No representation is made that a reference is "prior art" within the meaning of 35 U.S.C. §§ 102 and 103 and Applicants reserve the right, pursuant to 37 C.F.R. § 1.131 or otherwise, to establish that the reference(s) are not "prior art." Moreover, Applicants do

not represent that a reference has been thoroughly reviewed or that any relevance of any portion of a reference is intended.

Consideration of the items listed is respectfully requested. Pursuant to the provisions of M.P.E.P. 609, it is requested that the Examiner return a copy of the attached Form 1449, marked as being considered and initialed by the Examiner, to the undersigned with the next official communication.

Respectfully submitted,

HAMRE, SCHUMANN, MUELLER & LARSON, P.C.
P.O. Box 2902
Minneapolis, MN 55402-0902
(612) 455-3800

Dated: October 5, 2005

By: _____
Douglas P. Mueller
Reg. No. 30,300

DPM:nel

Date Mailed: OCTOBER 5, 2005

FORM 1449* INFORMATION DISCLOSURE STATEMENT IN AN APPLICATION (Use several sheets if necessary)	Docket Number: 10873.1781USWO	Application Number: UNKNOWN 10/552126
	Applicant: SATOH et al.	
	Filing Date: concurrent herewith	Group Art Unit: UNKNOWN

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	JP 9-213977	1997.8.15	JP			Abstract	
	JP 11-274526	1999.10.05	JP			Abstract	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

		T. Dullweber et al., "A new approach to high-efficiency solar cells by band gap grading in Cu (In, Ga) Se_2 chalcopyrite semiconductors", Solar Energy Materials & Solar Cells 67 (2001) 145-150.
		M. Contreras et al., "High Efficiency Cu(In,Ga)Se_2-Based Solar Cells: Processing of Novel Absorber Structures", First WCPEC (World Conference on Photovoltaic Energy Conversion); Dec. 5-9, 1994; Hawaii, pp. 68-75.
		K. Kushiya et al., "Development of Polycrystalline $CuIn_xGa_{1-x}Se_2$ Thin Film Solar Cells with Band Gap of 1.3 to 1.5 eV", Japanese Journal of Applied Physics, Part 1, No. 12A, Vol. 33 (1994) pp. 6599-6604.
		T. Negami et al., "Production Techology for CIGS thing film solar cells", Thin Solid Films, 403-404 (2002) pp. 197-203.
		T. Dullweber et al., "Study of the effect of gallium grading in Cu(In, Ga)Se2", Thin Solid Films, 361-362 (2000), pp. 478-481.
		A. Dhingra et al., "Computer Simulation and Modeling of Graded Bandgap $CuInSe_2$/CdS Based on Solar Cells", IEEE Transactions on Electron Devices, Vol. 43, No. 4, 1996, pp. 613-621.
		M. Contreras et al., "High Efficiency graded bandgap thin-film polycrystalline Cu (In, Ga)Se_2-based solar cells", Solar Energy Materials and Solar Cells 41/42 (1996) 231-246.

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PATENT TRADEMARK OFFICE

EXAMINER	DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form for next communication to the Applicant.

*Substitute Disclosure Statement Form (PTO-1449)